



a member of **The GEL Group** INC



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[gel.com](http://gel.com)

June 24, 2019

Mr. Scot Fitzgerald  
CH2MHill Plateau Remediation Company  
MSIN R3-50 CHPRC  
PO Box 1600  
Richland, Washington 99352

Re: CHPRC SAF X19-046  
Work Order: 482459  
SDG: GEL482459

Dear Mr. Fitzgerald:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 20, 2019. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at [www.gel.com](http://www.gel.com).

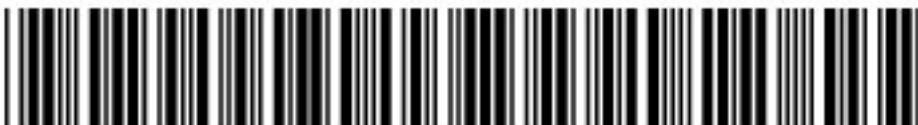
Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

A handwritten signature in cursive script, appearing to read "Anna Dupree".

Anna Dupree for  
Heather Shaffer  
Project Manager

Purchase Order: 300071 - C18  
Chain of Custody: X19-046-036  
Enclosures



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# Case Narrative

**General Narrative  
for  
CH2MHill Plateau Remediation Company  
CHPRC SAF  
SDG: GEL482459**

**June 24, 2019**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary**

**Sample receipt**

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on June 20, 2019, for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Items of Note** All efforts were made by the lab to meet any short hold times. Samples that were analyzed outside of the initial hold time but still within 2X hold time will be noted in the lab case narrative.

**Sample Identification**

The laboratory received the following sample:

<b><u>Laboratory Identification</u></b>	<b><u>Sample Description</u></b>
482459001	B3NT42

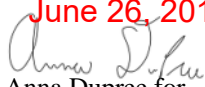
**Case Narrative**

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

**Data Package**

The enclosed data package contains the following sections: General Narrative, Chain of Custody and Supporting Documentation, and data from the following fractions: General Chemistry.

We certify that this package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

  
Anna Dupree for  
Heather Shaffer  
Project Manager

**General Chemistry  
Technical Case Narrative  
CH2MHill Plateau Remediation Company  
SDG #: GEL482459  
Work Order #: 482459**

**Ion Chromatography**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information****Holding Times**

Samples (See Below) were received with insufficient time to prep and/or analyze within the recommended method-specified holding time. The analysis was performed as soon as possible by the analyst. The data is qualified.

Sample	Analyte	Value
482459001 (B3NT42)	Nitrate and Nitrite	Received 20-JUN-19, within holding, analyzed 21-JUN-19, out of holding 21-JUN-19

**Sample Re-analysis**

Samples 1204312836 (Non SDG 482454002DUP), 1204312837 (Non SDG 482454002PS) and 482459001 (B3NT42) were re-analyzed due to instrument failure. The results from the reanalysis are reported.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

# **Chain of Custody and Supporting Documentation**

CH2M Hill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # X19-046-036	
				482459				Page 1 of 1	
Collector:	Juan Aguilar JCH/PRC	Contact/Requester:	Karen Waters-Husted			Telephone No.:	509-376-4650		
SAF No.:	X19-046	Sampling Origin:	Hanford Site			Purchase Order/Charge Code:	304888		
Project Title:	May 22, 2019, 100-KW Soil Flus	Logbook No.:	HNF-N-506 ~ 10S/85			Ice Chest No.:	BWS-740		
Shipped To (Lab):	GEL Laboratories, LLC	Method of Shipment	Commercial Carrier			Bill of Lading/Air Bill No.:	775515375342		
Protocol:	CERCLA	Priority:	24 Hours	PRIORITY	Offsite Property No.:	1123			
POSSIBLE SAMPLE HAZARDS/REMARK				SPECIAL INSTRUCTIONS					
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1				N/A					
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis		Holding Time	Preservative
B3NT42	N	W	6-19-19	1023	1x125-mL G/P	9056_ANIONS_IC: COMMON		48 Hours	Cool <=6C

[illegible]





Laboratories

## SAMPLE RECEIPT &amp; REVIEW FORM

Client: <b>CPRC</b>		SDG/AIR/COC/Work Order: <b>482459</b>	
Received By: <b>STACY BOONE</b>		Date Received: <b>06.20.19</b>	
Carrier and Tracking Number		Circle Applicable: FedEx Express    FedEx Ground    UPS    Field Services    Courier    Other <b>7755 1372 6548-1c</b> <b>7755 1481 2889-1c</b> <b>7755 1372 6570-1c</b> <b>7755 1372 7132-1c</b>	
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input type="checkbox"/>	
B) Did the client designate the samples are to be received as radioactive?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <input checked="" type="checkbox"/> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If D or E is yes, select Hazards below: PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4 Daily check performed and passed on IR temperature gun?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Temperature Device Serial #: <b>TRI-19</b> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		If Yes, are Encores or Soil Kits present for solids? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA Sample ID's and containers affected:
8 Samples received within holding time?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		ID's and containers affected:
10 Date & time on COC match date & time on bottles?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Circle Applicable: No container count on COC Other (describe) <b>B3R059 NOT RECEIVED</b>
12 Are sample containers identifiable as GEL provided?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
13 COC form is properly signed in relinquished/received sections?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <b>7755 1741 4416-1c</b> <b>7755 1542 8615-1c</b> <b>7755 1067 3828-1c</b>  <b>7755 1537-5342-1c</b> <b>7755 1428 1853-1c</b>			

PM (or PMA) review: Initials **KS** Date **6/21/19** Page **1** of **1**

GL-CHL-SR-001 Rev 6

# Data Review Qualifier Definitions

**GEL LABORATORIES LLC**  
2040 Savage Road Charleston, SC 29407 (843) 556-8171

Report Date: 24-JUN-19

## Project Specific Qualifier Definitions for GEL Client Code: CPRC

Qualifier	Qualifier Definition	Department	Fraction
U	Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.		
J	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate). Value is estimated	Organics	
P	Aroclor target analyte with greater than 25% difference between column analyses.	Organics	
C	Analyte has been confirmed by GC/MS analysis	Organics	Pesticide
B	The analyte was detected in both the associated QC blank and in the sample.	Organics	
E	Concentration exceeds the calibration range of the instrument	Organics	
A	The TIC is a suspected aldol-condensation product	Organics	Semi-Volatile
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
N	Spike Sample recovery is outside control limits.		
*	Duplicate analysis not within control limits	Inorganics	
>	Result greater than quantifiable range or greater than upper limit of the analysis range	General Chemistry	
Z	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
B	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).	Inorganics	Metals
D	Results are reported from a diluted aliquot of sample.		
E	Reported value is estimated due to interferences. See comment in narrative.		
M	Duplicate precision not met.	Inorganics	Metals
o	Analyte failed to recover within LCS limits (Organics only)	Organics	
S	Reported value determined by the Method of Standard Additions (MSA)	Inorganics	
T	Spike and/or spike duplicate sample recovery is outside control limits.	Organics	
W	Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.	Inorganics	
B	The analyte was detected in the associated method blank >= MDC or >5% sample activity.	Radiological	
Y	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
+	Correlation coefficient for Method of Standard Additions (MSA) is < 0.995	Inorganics	
B	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).	General Chemistry	
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.	Inorganics	Metals
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.	General Chemistry	
<	Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide	General Chemistry	
UX	Gamma Spectroscopy--Uncertain identification	Radiological	
o	Analyte failed to recover within LCS limits	Radiological	Rad

# Laboratory Certifications

**List of current GEL Certifications as of 24 June 2019**

<b>State</b>	<b>Certification</b>
Alaska	17-018
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122019-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-19-15
Utah NELAP	SC000122018-27
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

# General Chem Analysis

# Case Narrative

**General Chemistry  
Technical Case Narrative  
CH2MHill Plateau Remediation Company  
SDG #: GEL482459  
Work Order #: 482459**

**Product: Ion Chromatography****Analytical Method:** 9056\_ANIONS\_IC**Analytical Procedure:** GL-GC-E-086 REV# 26**Analytical Batch:** 1888753

The following samples were analyzed using the above methods and analytical procedure(s).

<b><u>GEL Sample ID#</u></b>	<b><u>Client Sample Identification</u></b>
482459001	B3NT42
1204312834	Method Blank (MB)
1204312835	Laboratory Control Sample (LCS)
1204312836	482454002(NonSDG) Sample Duplicate (DUP)
1204312837	482454002(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Technical Information****Holding Times**

Samples (See Below) were received with insufficient time to prep and/or analyze within the recommended method-specified holding time. The analysis was performed as soon as possible by the analyst. The data is qualified.

Sample	Analyte	Value
482459001 (B3NT42)	Nitrate and Nitrite	Received 20-JUN-19, within holding, analyzed 21-JUN-19, out of holding 21-JUN-19

**Sample Re-analysis**

Samples 1204312836 (Non SDG 482454002DUP), 1204312837 (Non SDG 482454002PS) and 482459001 (B3NT42) were re-analyzed due to instrument failure. The results from the reanalysis are reported.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.



**GEL LABORATORIES LLC**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

**Qualifier Definition Report  
for**

CPRC001 CH2MHill Plateau Remediation Company

Client SDG: GEL482459 GEL Work Order: 482459

**The Qualifiers in this report are defined as follows:**

B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).

D Results are reported from a diluted aliquot of sample.

U Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

**Signature:****Name: Aubrey Kingsbury****Date: 25 JUN 2019****Title: Data Validator**

# Sample Data Summary

**GEL LABORATORIES LLC**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

**Certificate of Analysis**

Report Date: June 25, 2019

Company : CH2MHill Plateau Remediation Company  
Address : MSIN R3-50 CHPRC  
PO Box 1600  
Richland, Washington 99352  
Contact: Mr. Scot Fitzgerald  
Project: CHPRC SAF X19-046

Client Sample ID: B3NT42  
Sample ID: 482459001  
Matrix: WATER  
Collect Date: 19-JUN-19 10:23  
Receive Date: 20-JUN-19  
Collector: Client

Project: CPRC0X19  
Client ID: CPRC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
9056_ANIONS_IC: COMMON "As Received"												
Fluoride	B	306	33.0	500	ug/L		1	LXA2	06/21/19	1943	1888753	1
Nitrite-N	UX	33.0	33.0	250	ug/L		1					
Chloride	D	14800	1340	4000	ug/L		20	LXA2	06/21/19	2013	1888753	2
Nitrate-N	DX	5560	660	2000	ug/L		20					
Sulfate	D	208000	2660	8000	ug/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	9056_ANIONS_IC	
2	9056_ANIONS_IC	

**Notes:**Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

# Quality Control Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: June 25, 2019

Page 1 of 3

CH2MHill Plateau Remediation Company

MSIN R3-50 CHPRC

PO Box 1600

Richland, Washington

Mr. Scot Fitzgerald

Contact:

Workorder: 482459

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	1888753										
QC1204312836	482454002	DUP									
Chloride		7650		7600	ug/L	0.548		(0%-20%)	LXA2	06/20/19	16:26
Fluoride	B	324B		227	ug/L	35.3	^	(+/-500)			
Nitrate-N		3080		3080	ug/L	0.0325		(0%-20%)			
Nitrite-N	U	33.0U		33.0	ug/L	N/A					
Sulfate	D	46000D		46900	ug/L	1.97		(0%-20%)		06/20/19	16:56
QC1204312835	LCS										
Chloride	5000			4770	ug/L		95.5	(80%-120%)		06/20/19	14:56
Fluoride	2500			2650	ug/L		106	(80%-120%)			
Nitrate-N	2500			2440	ug/L		97.6	(80%-120%)			
Nitrite-N	2500			2540	ug/L		101	(80%-120%)			
Sulfate	10000			10000	ug/L		100	(80%-120%)			
QC1204312834	MB										
Chloride		U		67.0	ug/L					06/20/19	14:26
Fluoride		U		33.0	ug/L						
Nitrate-N		U		33.0	ug/L						

**GEL LABORATORIES LLC**

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

**QC Summary**

Workorder: 482459

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Ion Chromatography</b>											
Batch	1888753										
Nitrite-N			U	33.0	ug/L				LXA2	06/20/19	14:26
Sulfate			U	133	ug/L						
QC1204312837 482454002 PS											
Chloride	5.00		7.65	13.7	mg/L		120	(75%-125%)		06/20/19	17:26
Fluoride	2.50	B	0.324	2.89	mg/L		102	(75%-125%)			
Nitrate-N	2.50		3.08	5.84	mg/L		110	(75%-125%)			
Nitrite-N	2.50	U	0.00	2.52	mg/L		101	(75%-125%)			
Sulfate	10.0	D	4.60D	14.8	mg/L		102	(75%-125%)		06/20/19	17:55

**Notes:**

The Qualifiers in this report are defined as follows:

- < Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide
- > Result greater than quantifiable range or greater than upper limit of the analysis range
- B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
- C Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.
- D Results are reported from a diluted aliquot of sample.
- E Reported value is estimated due to interferences. See comment in narrative.
- N Spike Sample recovery is outside control limits.
- U Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Z Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 482459

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
----------	-----	--------	------	----	-------	------	------	-------	-------	------	------

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.